NPDES PERMIT RATING WORK SHEET

☐ Regular Addition
☐ Discretionary Addition
☐ Score change, but no status Change
☐ Deletion

VPDES NO. : VA0052451

Facility Name: Dominion – North Anna Power Station
City / County: Louisa
Receiving Water: Lake Anna
Reach Number:

Is this facility a steam electric power plant (sic =4911) with one or more of the following characteristics?

1. Power output 500 MW or greater (not using a cooling pond/lake)
2. A nuclear power Plant
3. Cooling water discharge greater than 25% of the receiving stream's 7Q10 flow rater

☒ **Yes; score is 600 (stop here)** ☐ NO; (continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

☐ YES; score is 700 (stop here)
☐ NO; (continue)

FACTOR 1: Toxic Pollutant Potential

PCS SIC Code: _____ Primary Sic Code: _____ Other Sic Codes: _____ _____ _____

Industrial Subcategory Code: _____ (Code 000 if no subcategory)

Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
☐ No process waste streams	0	0	☐ 3.	3	15	☐ 7.	7	35
☐ 1.	1	5	☐ 4.	4	20	☐ 8.	8	40
☐ 2.	2	10	☐ 5.	5	25	☐ 9.	9	45
			☐ 6.	6	30	☐ 10.	10	50

Code Number Checked: _____

Total Points Factor 1: N/A

FACTOR 2: Flow/Stream Flow Volume (Complete either Section A or Section B; check only one)

Section A – Wastewater Flow Only considered

Wastewater Type (see Instructions)			Code	Points
Type I:	Flow < 5 MGD	☐	11	0
	Flow 5 to 10 MGD	☐	12	10
	Flow > 10 to 50 MGD	☐	13	20
	Flow > 50 MGD	☐	14	30
Type II:	Flow < 1 MGD	☐	21	10
	Flow 1 to 5 MGD	☐	22	20
	Flow > 5 to 10 MGD	☐	23	30
	Flow > 10 MGD	☐	24	50
Type III:	Flow < 1 MGD	☐	31	0
	Flow 1 to 5 MGD	☐	32	10
	Flow > 5 to 10 MGD	☐	33	20
	Flow > 10 MGD	☐	34	30

Section B – Wastewater and Stream Flow Considered

Wastewater Type (see Instructions)	Percent of Instream Wastewater Concentration at Receiving Stream Low Flow		Code	Points
Type I/III:	< 10 %	☐	41	0
	10 % to < 50 %	☐	42	10
	> 50%	☐	43	20
Type II:	< 10 %	☐	51	0
	10 % to < 50 %	☐	52	20
	> 50 %	☐	53	30

Code Checked from Section A or B: _____

Total Points Factor 2: N/A

NPDES PERMIT RATING WORK SHEET

FACTOR 3: Conventional Pollutants

(only when limited by the permit)

A. Oxygen Demanding Pollutants: (check one) ☐ BOD ☐ COD ☐ Other: _____

Permit Limits: (check one)	Code	Points
☐ < 100 lbs/day	1	0
☐ 100 to 1000 lbs/day	2	5
☐ > 1000 to 3000 lbs/day	3	15
☐ > 3000 lbs/day	4	20

Code Number Checked: _____

Points Scored: **N/A**

B. Total Suspended Solids (TSS)

Permit Limits: (check one)	Code	Points
☐ < 100 lbs/day	1	0
☐ 100 to 1000 lbs/day	2	5
☐ > 1000 to 5000 lbs/day	3	15
☐ > 5000 lbs/day	4	20

Code Number Checked: _____

Points Scored: **N/A**

C. Nitrogen Pollutants: (check one) ☐ Ammonia ☐ Other: _____

Permit Limits: (check one) *Nitrogen Equivalent*	Code	Points
☐ < 300 lbs/day	1	0
☐ 300 to 1000 lbs/day	2	5
☐ > 1000 to 3000 lbs/day	3	15
☐ > 3000 lbs/day	4	20

Code Number Checked: _____

Points Scored: **N/A**

Total Points Factor 3: **N/A**

FACTOR 4: Public Health Impact

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this include any body of water to which the receiving water is a tributary)? A public drinking water supply may include infiltration galleries, or other methods of conveyance that ultimately get water from the above reference supply.

☐ YES; (If yes, check toxicity potential number below)

☐ NO; (If no, go to Factor 5)

Determine the *Human Health* potential from Appendix A. Use the same SIC doe and subcategory reference as in Factor 1. (Be sure to use the *Human Health* toxicity group column – check one below)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
☐ No process waste streams	0	0	☐ 3.	3	0	☐ 7.	7	15
☐ 1.	1	0	☐ 4.	4	0	☐ 8.	8	20
☐ 2.	2	0	☐ 5.	5	5	☐ 9.	9	25
			☐ 6.	6	10	☐ 10.	10	30

Code Number Checked: _____

Total Points Factor 4: **N/A**

NPDES PERMIT RATING WORK SHEET

FACTOR 5: Water Quality Factors

A. Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-base federal effluent guidelines, or technology-base state effluent guidelines), or has a wasteload allocation been to the discharge

	Code	Points
☐ YES	1	10
☐ NO	2	0

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

	Code	Points
☐ YES	1	0
☐ NO	2	5

C. Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

	Code	Points
☐ YES	1	10
☐ NO	2	0

Code Number Checked: A _____ B _____ C _____

Points Factor 5: A _____ + B _____ + C _____ = **N/A**

FACTOR 6: Proximity to Near Coastal Waters

A. Base Score: Enter flow code here (from factor 2) _____

Check appropriate facility HPRI code (from PCS):

	HPRI#	Code	HPRI Score
☐	1	1	20
☐	2	2	0
☐	3	3	30
☐	4	4	0
☐	5	5	20

Enter the multiplication factor that corresponds to the flow code: _____

Flow Code	Multiplication Factor
11, 31, or 41	0.00
12, 32, or 42	0.05
13, 33, or 43	0.10
14 or 34	0.15
21 or 51	0.10
22 or 52	0.30
23 or 53	0.60
24	1.00

HPRI code checked : _____

Base Score (HPRI Score): _____ (Multiplication Factor) _____ = _____

B. Additional Points – NEP Program

For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions) or the Chesapeake Bay?

	Code	Points
☐	1	10
☐	2	0

C. Additional Points – Great Lakes Area of Concern

For a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 area's of concern (see instructions)?

	Code	Points
☐	1	10
☐	2	0

Code Number Checked: A _____ B _____ C _____

Points Factor 6: A _____ + B _____ + C _____ = **N/A**

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SCORE SUMMARY

Factor	Description	Total Points
1	Toxic Pollutant Potential	
2	Flows / Streamflow Volume	
3	Conventional Pollutants	
4	Public Health Impacts	
5	Water Quality Factors	
6	Proximity to Near Coastal Waters	
	TOTAL (Factors 1 through 6)	

S1. Is the total score equal to or grater than 80 [X] **YES; (Facility is a Major)** [ ] NO

S2. If the answer to the above questions is no, would you like this facility to be discretionary major?

[ ] NO

[ ] YES; (Add 500 points to the above score and provide reason below:

Reason: _____

NEW SCORE : **600**

OLD SCORE : _____

Permit Reviewer's Name : Susan Mackert

Phone Number: (703) 583-3853

Date: June 1, 2007